Appl. No. 10/765,808 Amdt. dated 09/22/2006 Response to Office Action of 07/21/2006

Attorney Docket No.: N1085-00256
[TSMC2003-0899]

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SEP 2 2 2008

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1 1. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and hardware that is formed of a material that includes oxygen
- 3 impregnated therein such that said oxygen is released when an etching operation is
- 4 carried out, wherein said hardware comprises a focus ring and at least a portion of said
- 5 focus ring substantially continuously extends below a peripheral portion of said chuck.
- 1 2. (Currently Amended). The plasma etching apparatus as in claim 1, wherein said
- 2 chuck is substantially circular and said hardware comprises a focus ring that
- 3 peripherally surrounds said chuck.
- 1 3. (Currently Amended) The plasma etching apparatus as in claim [[1]] 8, wherein
- 2 said chuck is substantially circular and said hardware comprises a focus ring that is
- 3 annular in shape and at least a portion of said lower focus ring substantially
- 4 continuously extends below a peripheral portion of said chuck.
- 1 4. (Original) The plasma etching apparatus as in claim 1, wherein said chuck
- 2 comprises an electrostatic chuck.
- 1 5. (Original) The plasma etching apparatus as in claim 1, wherein said hardware
- 2 comprises a focus ring composed primarily of quartz.
- 1 6. (Original) The plasma etching apparatus as in claim 1, wherein said hardware
- 2 comprises a focus ring formed of a ceramic.

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- 1 7. (Currently Amended) The plasma etching apparatus as in claim [[2]] 1, further
- 2 comprising a further focus ring, said focus ring and said further focus ring forming a
- 3 focus ring set that peripherally surrounds said chuck.
- 1 8. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and a focus ring set, at least one of said chuck and said focus ring
- 3 set formed of a material that includes oxygen therein such that said oxygen is released
- 4 when an etching operation is carried out, said focus ring set including an upper focus
- 5 ring that laterally surrounds said chuck and a lower focus ring disposed completely
- 6 below said upper focus ring and below said substrate.
- 1 9. (Currently Amended) The plasma etching apparatus as in claim 1, wherein said
- 2 hardware-comprises a focus ring and further comprising said focus ring maintainable at
- 3 a temperature no greater than a temperature of said substrate while an etching
- 4 operation is carried out upon said substrate.
- 1 10. (Original) The plasma etching apparatus as in claim 9, wherein said chuck
- 2 comprises an electrostatic chuck and said substrate comprises a semiconductor
- 3 substrate.
- 1 11. (Original) The plasma etching apparatus as in claim 9, wherein said focus ring
- 2 maintains contact with said electrostatic chuck and said electrostatic chuck is cooled
- 3 during said etching operation.
- 1 12. (Original) The plasma etching apparatus as in claim 11, wherein said focus ring
- 2 is disposed peripherally around said substrate and includes a portion that rests on an
- 3 annular landing section of electrostatic chuck.
- 1 13-28. (Cancelled)

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- 1 29. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and a focus ring peripherally surrounding said chuck and formed of
- 3 a focus ring material that includes oxygen throughout the focus ring material, such that
- 4 said oxygen is released when an etching operation is carried out, wherein at least a
- 5 portion of said focus ring substantially continuously extends below a peripheral portion
- 6 of said chuck.
- 1 30. (Previously Presented) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and formed of an oxygen-impregnated material, and a focus ring
- 3 peripherally surrounding said chuck.
- 1 31. (Previously Presented) The plasma etching apparatus as in claim 30, wherein
- 2 said chuck comprises an electrostatic chuck.
- 1 32. (Previously Presented) The plasma etching apparatus as in claim 31, wherein
- 2 said chuck is disposed within an etching chamber and further comprising said etching
- 3 chamber containing therein further hardware formed of said oxygen-impregnated
- 4 material.
- 1 33. (Previously Presented) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and a focus ring set peripherally surrounding said chuck and
- 3 formed of a focus ring material that includes oxygen throughout the focus ring
- 4 material[[,]] such that said oxygen is released when an etching operation is carried out,
- 5 said focus ring set including an upper focus ring that laterally surrounds said chuck and
- 6 a lower focus ring disposed completely below said upper focus ring and below a portion
- 7 of said said substrate, at least the lower focus ring maintainable at a temperature no
- 8 greater than a temperature of said substrate while said etching operation is carried out
- 9 upon said substrate.